CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.12/SR/CEMENT/2013-14 Date: 29.07.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
AGENCY	:	**Mr. S. Ramesh**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Road & Drains at Kammagondanahalli Jarakabande kaval Slum Maramma Temple near Forest area, in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 27.07.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

AE W-12

Note:

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Lab No.: CTCE/BBMP/W.No.12/SR/SAND/2013-14 : 29.07.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Mr. S. Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to Road & Drains at Kammagondanahalli Jarakabande kaval Slum Maramma Temple near Forest area, in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 27.07.2013

Date of Testing : 29.07.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	72	3.60	3.60	96.4	90-100
2.36	200	10.00	13.60	86.4	75-100
1.18	460	23.00	36.60	63.4	55-90
600 Micron	500	25.00	61.60	38.4	35-59
300 Micron	485	24.25	85.85	14.2	8-30
150 Micron	220	11.00	96.85	3.2	0-10

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Job No.: CTCE/BBMP/W.No.12/SR/AGG/2013-14 : 29.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Mr. S. Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to Road & Drains at Kammagondanahalli Jarakabande kaval Slum Maramma Temple near Forest area, in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 27.07.2013

Date of Testing : 29.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.81	3.81	96.19	95-100
20	16545	63.63	67.44	32.56	30-70
10	5200	20.00	87.44	12.56	10-35
4.75	2500	9.62	97.06	2.94	0-5

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Job No.: CTCE/BBMP/W.No.12/SR/CUBE/2013-14 27.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Mr. S. Ramesh,** Contractor, Bangalore.
Name of the work	: Improvements to Road & Drains at Kammagondanahalli Jarakabande kaval Slum Maramma Temple near Forest area, in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	27.08.2013	8.125	478.2	21.25
2	30.07.2013	27.08.2013	8.220	485.6	21.58
3	30.07.2013	27.08.2013	8.300	499.6	22.20

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	28.08.2013	8.298	480.5	21.36
2	31.07.2013	28.08.2013	8.365	500.3	22.24
3	31.07.2013	28.08.2013	8.400	525.6	23.36

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